

## ABSTRACT

A phenolic polymer nanotube having a specific shape is obtained by carrying out: a reaction step in which at least one monomer selected from a group of phenol and derivative thereof is reacted with at least one aldehyde monomer in the presence of basic condensing agent; a treatment step in which a precursor obtained in the reaction step is treated with a strong base; and a polymerization step in which a reacted precursor obtained in the treatment step is dropped into aqueous solution, containing the monomer and a surfactant, so as to polymerize the reacted precursor.